

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of preparing a library of membrane proteins embedded in liposomes, which method comprises (a) providing a library of membrane proteins ~~free of detergents, denaturing agents, and organic solvents~~; and (b) contacting the library of membrane proteins with liposomes to form a library of membrane protein-embedded liposomes, wherein the weight ratio of the membrane proteins to lipids constituting the liposomes is from 0.01 to 0.8.

2. (Original) The method of claim 1, wherein said membrane proteins comprise at least GPI anchor type receptors, G protein-coupled receptors, and oligomer type receptors.

3. (Original) The method of claim 1, wherein the membrane protein-embedded liposomes have a diameter of about 10 nm to about 5,000 nm.

4. (Original) The method of claim 3, wherein the membrane protein-embedded liposomes have a diameter of about 10 nm to about 500 nm.

5. (Canceled)

6. (Currently Amended) The method of claim ~~5~~, 1, wherein the weight ratio of ~~the membrane proteins~~ protein to lipid ~~lipids constituting the liposomes~~ is from 0.05 to 0.5.

7. (Original) The method of claim 1, wherein the amount of membrane proteins is about 10 fg or more.

8. (Currently Amended) A library of membrane protein-embedded liposomes obtained by the method of claim 1, which comprises ~~comprising~~ about 1×10^5 or more membrane protein-embedded liposomes, wherein the liposomes have a diameter of 10 nm or more, and wherein the amount of membrane proteins is about 10 fg or more.

9. (Original) The library of claim 8, wherein the amount of membrane proteins is about 1 pg or more.

10. (Original) The library of claim 9, wherein the amount of membrane proteins is about 10 pg or more.

11. (Original) The library of claim 8, which comprises about 1×10^8 or more membrane protein-embedded liposomes.

12. (New) The method of claim 1, wherein the weight ratio of the membrane proteins to lipids constituting the liposomes is from 0.01 to 0.05.

13. (New) The method of claim 1, wherein the library of membrane proteins is free of detergents, denaturing agents, and organic solvents.